
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK AQUA-IMAGE Cleaner/Preserver

Catalog Number(s): 833 3635 - 1 quart (U.S.)

Manufacturer/Supplier: EASTMAN KODAK COMPANY, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151

For other information or to request an MSDS, call (800) 242-2424.

Synonym(s): CIN 10068023; KAN 355388; PCD 3855/40420; E-0001.000; CAT#
1312289

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

60-65	Stoddard Solvent (008052-41-3)
20-30	Water (007732-18-5)
5-10	Glycerol (000056-81-5)
2	Phosphoric acid (007664-38-2)
1-5	Sodium phosphate, dibasic (007558-79-4)
1-5	Polyvinylpyrrolidone (009003-39-8)

3. HAZARDS IDENTIFICATION

CONTAINS: Stoddard Solvent (008052-41-3); Phosphoric acid (007664-38-2)

WARNING!

COMBUSTIBLE LIQUID AND VAPOR

NOTICE! DELIBERATE CONCENTRATION AND INHALATION OF VAPORS MAY BE HARMFUL OR FATAL

MAY BE HARMFUL IF SWALLOWED

CAUSES SKIN AND EYE IRRITATION

HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION OF THE EYES OR RESPIRATORY TRACT

CAN CAUSE CNS EFFECTS

Eastman Kodak Hazard Ratings: R-1, S-2, F-2, C-0

HMIS Hazard Ratings:

Health - 2, Flammability - 2, Reactivity - 0, Personal Protection - B

NFPA Hazard Ratings:

Health - 1, Flammability - 2, Reactivity (Stability) - 0

NOTE: HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. The personal protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material. PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. An asterisk (*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

Skin: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: Do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol foam

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: Classified as combustible. Material contains a combustible solvent that may accumulate in the container headspace.

6. ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated breathing of mist or vapor. Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials. Keep away from heat and flame. Use with adequate ventilation.

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV):

Phosphoric acid: 1 mg/m³ TWA; 3 mg/m³ STEL

Stoddard Solvent: 100 ppm TWA

Glycerol as glycerin mist: 10 mg/m³

OSHA (USA) Permissible Exposure Limit (PEL - 1971 Table Z-1 Values):

Phosphoric acid: 1 mg/m³ TWA

Stoddard Solvent: 500 ppm TWA; 2900 mg/m³ TWA

Glycerol as glycerin mist: 5 mg/m³ respirable fraction

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: Full-face with organic vapor/acid gas & P95 particulate filter. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

Eye Protection: Wear safety glasses with side shields (or goggles).

Skin Protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Recommended Decontamination Facilities: Eye bath, washing facilities, safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid (emulsion)
Color: Milky white
Odor: Aromatic
Specific Gravity (water = 1): 0.89
Vapor Pressure at 20°C (68°F): 28 mbar (21 mm Hg)
Vapor Density (Air = 1): 0.8
Volatile Fraction by Weight: 85 %
Boiling Point: >100°C (>212°F)
Solubility in Water: Complete
pH: Not available
Flash Point: 47°C (116°F) (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable
No exotherm to: boiling

Incompatibility: Strong oxidizing agents

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

General:

Contains Phosphoric acid. The following exposure effects are based on pH of the solution, concentration of the acid, and a review of the literature.

Contains Stoddard Solvent. Can cause CNS effects.

Inhalation: High vapor concentrations may cause drowsiness and irritation. Deliberate concentration and inhalation of vapors may be harmful or fatal.

Eyes: Causes irritation. High vapor concentrations may cause irritation.

Skin: Causes irritation.

Ingestion: May be harmful if swallowed. May cause irritation of the gastrointestinal tract. If aspirated into lungs during swallowing or vomiting, it may cause pulmonary hemorrhage, edema and possible death.

12. ECOLOGICAL INFORMATION

The following properties are ESTIMATED from the components of the preparations.
However, this material, itself, has not been tested for environmental effects.

Potential Toxicity

Fish LC50 mg/l:	10-100
Daphnid EC50 mg/l:	10-100
Algal IC50 mg/l:	1-10

Organics Readily Degradable (>70%): Yes (7 days)

Potential Bioaccumulation: Log Pow <1

COD (approximate g/l): 104

BOD5 (approximate g/l): 110

Potential Toxicity

Waste treatment microorganisms EC50 (mg/l): Not available

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Contract with a licensed chemical disposal agency. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

- For transportation information regarding this product call the Kodak Worldwide Transportation Hazmat Hot Line: (585) 722-2400 between 8 a.m. and 5 p.m. (Eastern Standard Time), Monday through Friday.

15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None
- Carcinogenicity Classification (components present at 0.1% or more):
 - International Agency for Research on Cancer (IARC): None
 - American Conference of Governmental Industrial Hygienists (ACGIH): None
 - National Toxicology Program (NTP): None
 - Occupational Safety and Health Administration (OSHA): None
- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: Phosphoric acid

16. OTHER INFORMATION

US/Canadian Label Statements:

CONTAINS: Stoddard Solvent (008052-41-3); Phosphoric acid (007664-38-2)

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CAN CAUSE CNS EFFECTS

Keep away from heat and flame.
Avoid prolonged or repeated breathing of mist or vapor.
Avoid contact with eyes, skin, and clothing.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

IN CASE OF FIRE: Use water spray, carbon dioxide (CO₂), dry chemical, alcohol foam. Use water spray to keep fire-exposed containers cool.

IN CASE OF SPILL: Eliminate all ignition sources.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

R-1, S-2, F-2, C-0